



PREDPOL



TACOMA POLICE DEPARTMENT

WHAT IS PREDICTIVE POLICING?

- No standard definition
- Paradigm of prevention and efficiency
- Similar to weather forecasting
 - Both long-term and short-term forecasts
- Not Minority Report!

WHY IS IT BENEFICIAL?

- Prevention is cheaper than investigation
- Planning and resource allocation
- More focused response effective and efficient, can do more with less

SAVES MONEY

PREDPOL IS ...

- software technology that predicts the time and place of future crimes
- high level mathematics combined with experienced crime analysts and veteran police using their own knowledge and experience
- more than “rear view mirror” policing that simply maps past crime

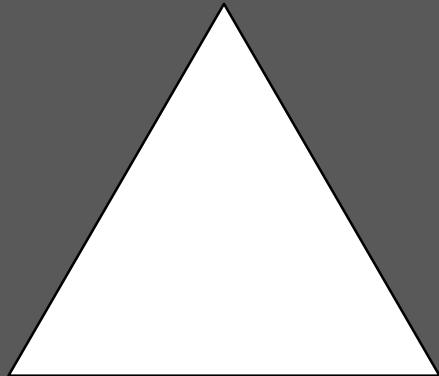


PREDICTIVE POLICING

- **is NOT:**
 - a replacement for knowledge, skills & experience
 - profiling of individuals
 - probable cause
 - new hardware or new hires
- **IS:**
 - assigning probabilities of crime in space and time
 - focal points for effective use of police resources
 - use of existing crime data

THE SCIENCE

repeat victimization



near-repeats

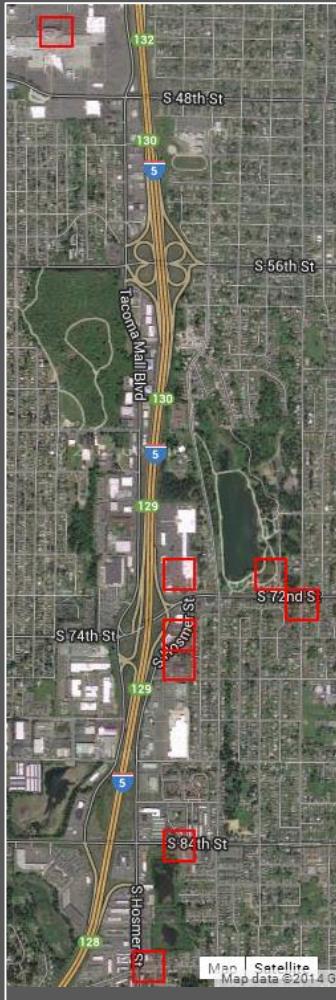
local search

offender behavior

$$\frac{\partial B}{\partial t} = \frac{\eta D}{4} \nabla^2 B - \omega B + \theta \omega \delta$$

mathematical model

PREDPOL vs HOTSPOTS

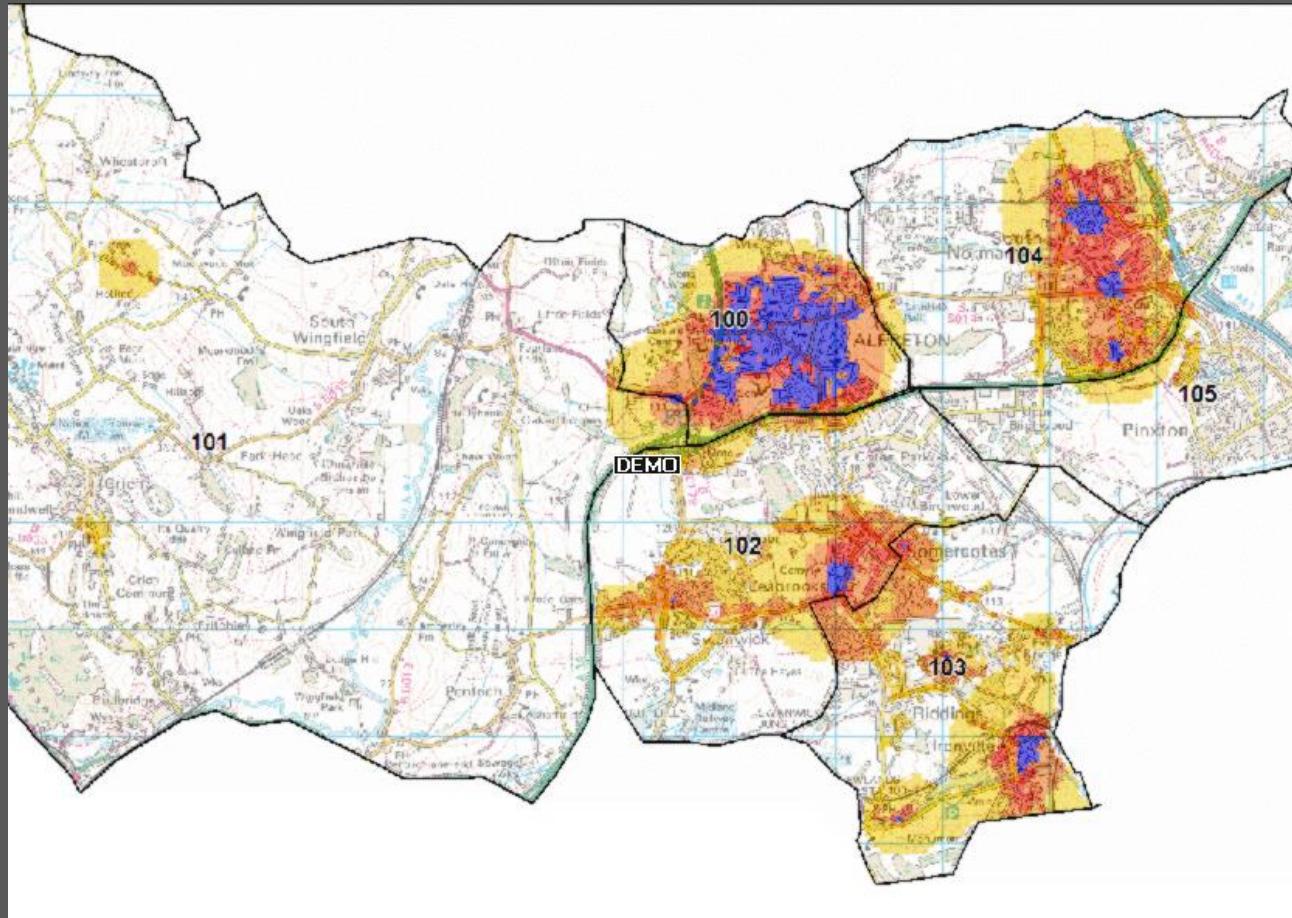


- PredPol is 2x more accurate than hotspots
- More focused areas
- Fewer resources needed to address areas

PredPol is an analytical improvement,
not proactive police work

HOTSPOTS

Hot spots of burglary are considered "slippery"

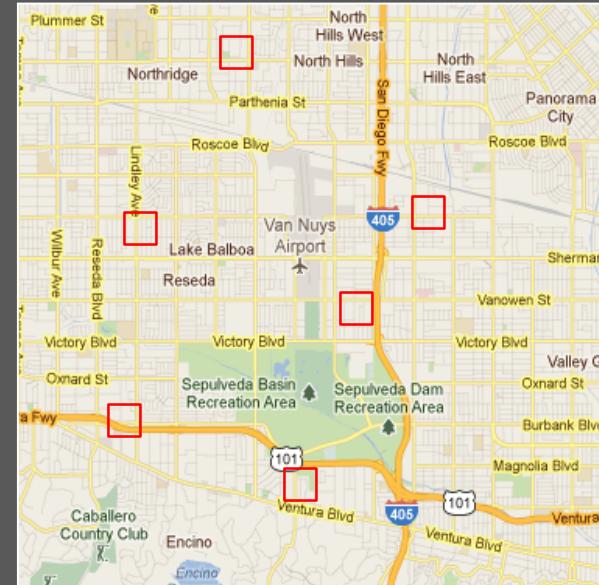
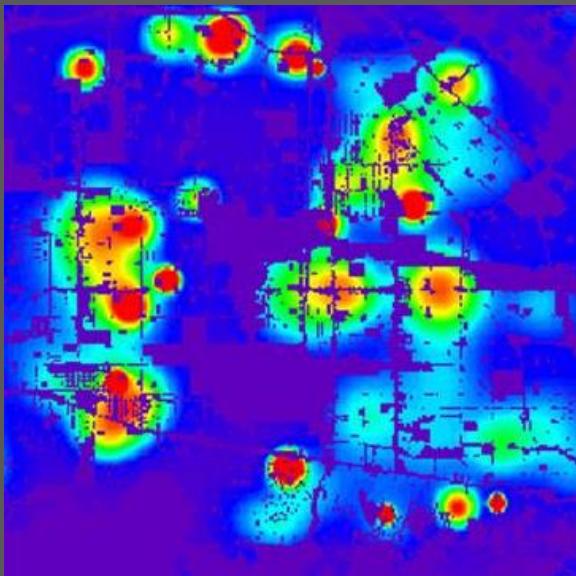


Burglary
Concentration

High

Low

MAKING PREDICTIVE POLICING PRACTICAL

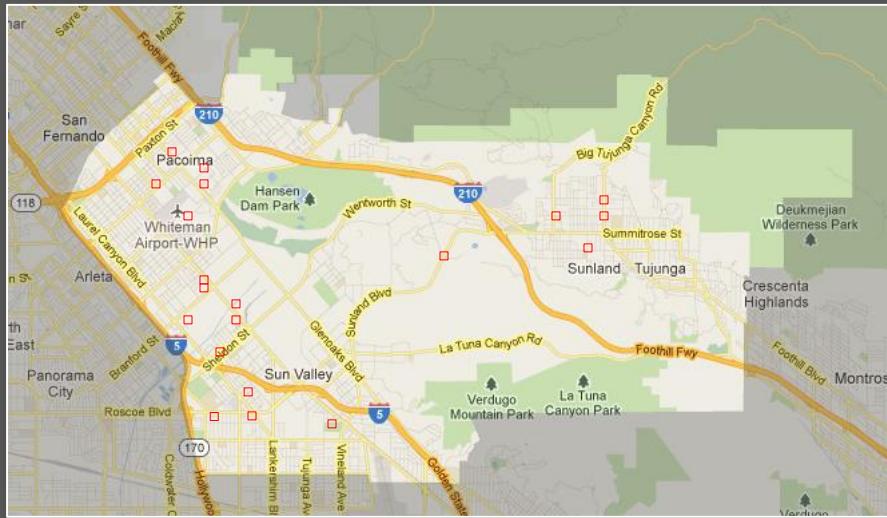


tactical ambiguity

tactical clarity

DEPLOYMENT TO OFFICERS

- lists or maps of predictions in 500' x 500' boxes
- distributed at start of shift or on-demand
- 'get in the box' to disrupt crime during patrols



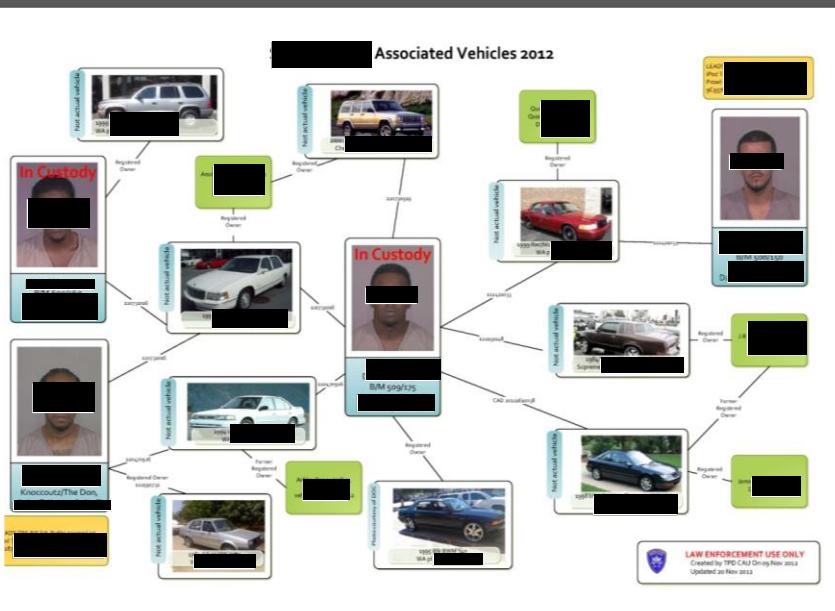
LAPD Deployment



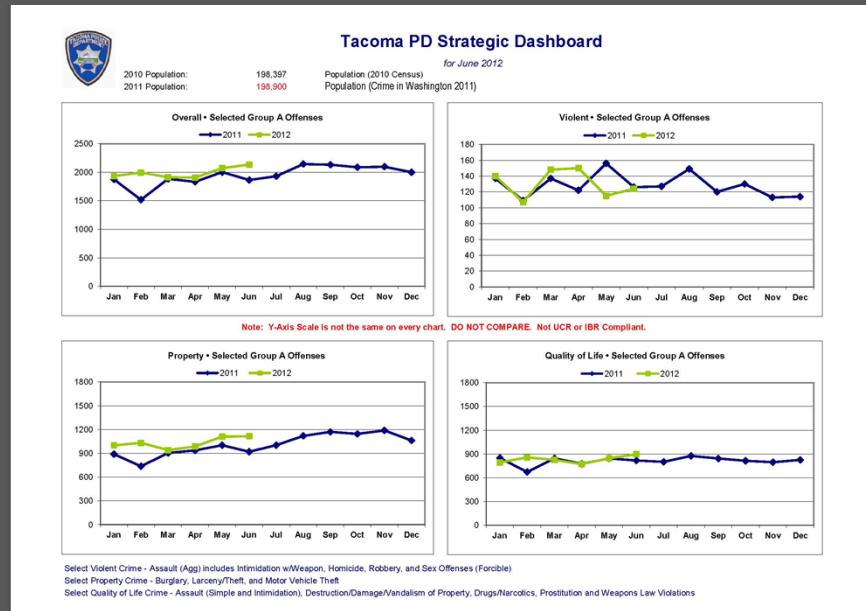
Santa Cruz PD Deployment

COMPLEMENTS ANALYST WORK

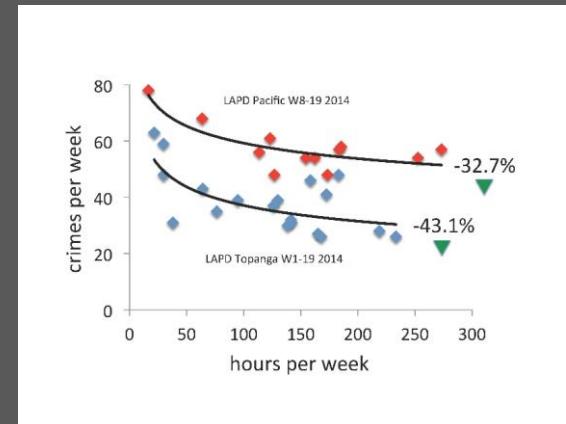
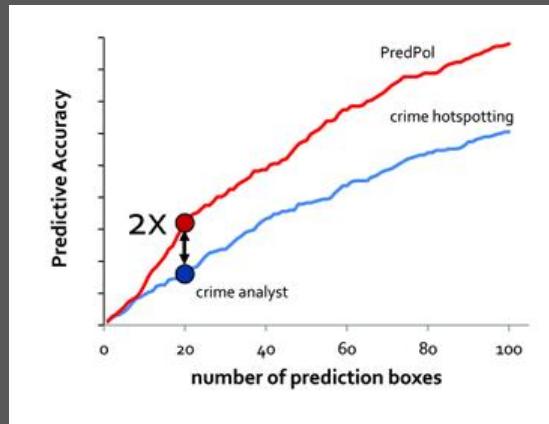
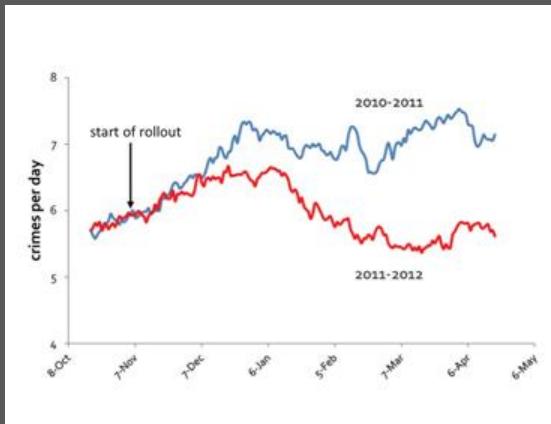
Analysts provide information of active offenders in area



Reports and analytical products can drive PredPol priorities



LAPD RESULTS



DEMO

Benefits of PredPol

Frequency

Large

Prevention

- Overarching goal
- Long term crime reduction
- Blocking criminal opportunities

Strategic

- Near right time, right place
- Increases chance of arrest
- Decreases call response time

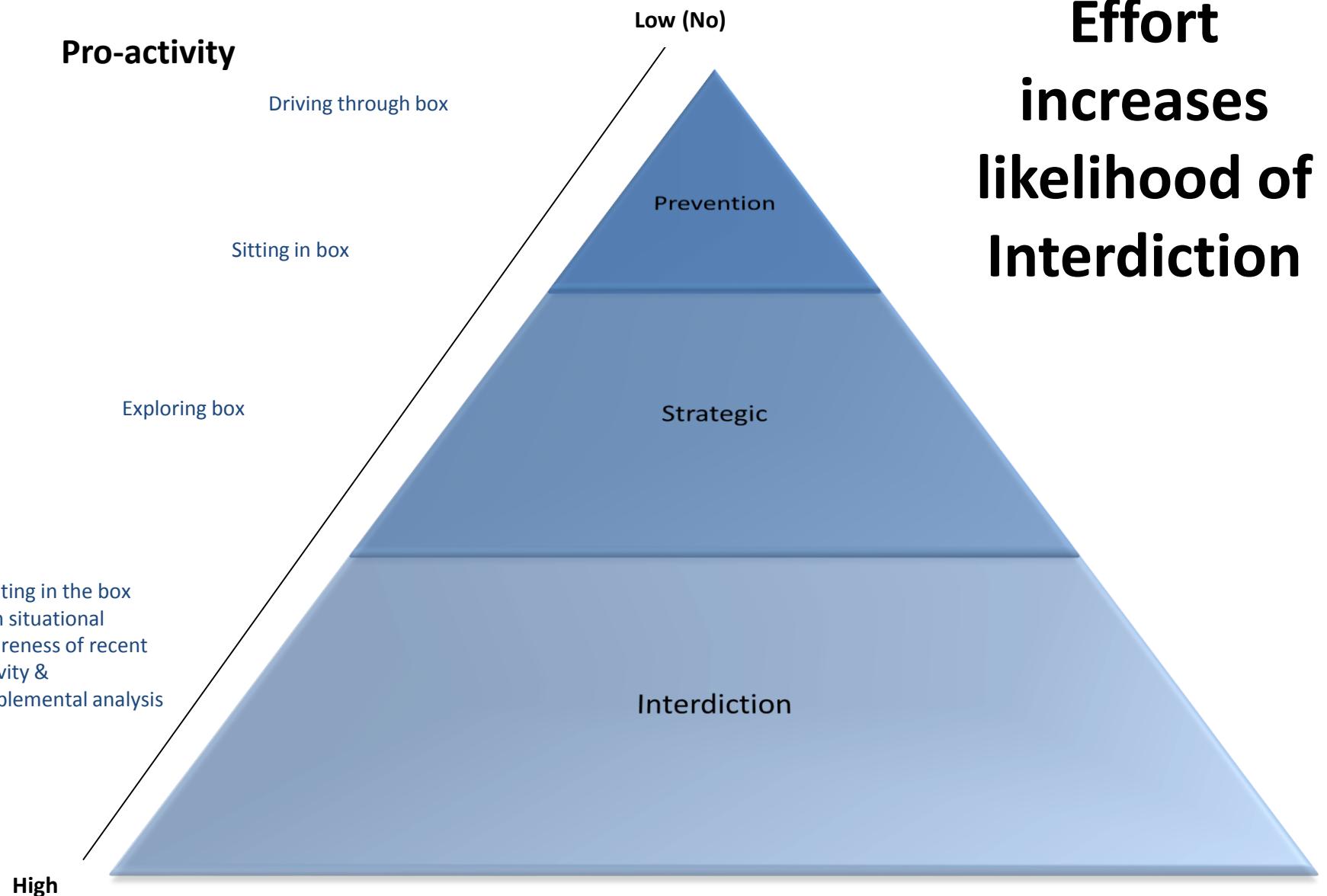
Interdiction

- Identifying potential offenders and developing intelligence through FIRs

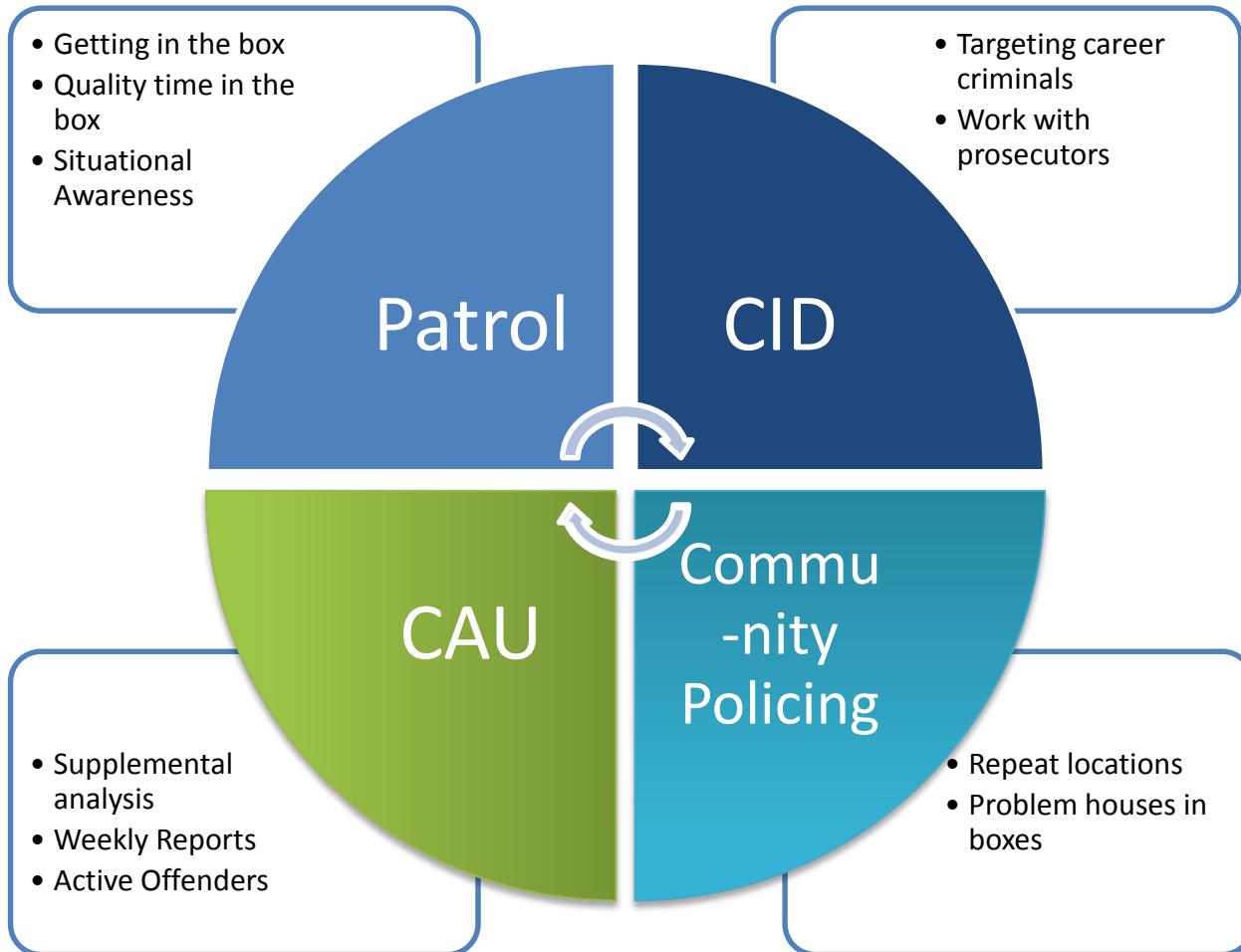
Small

- Caught red-handed

Level of Effort increases likelihood of Interdiction

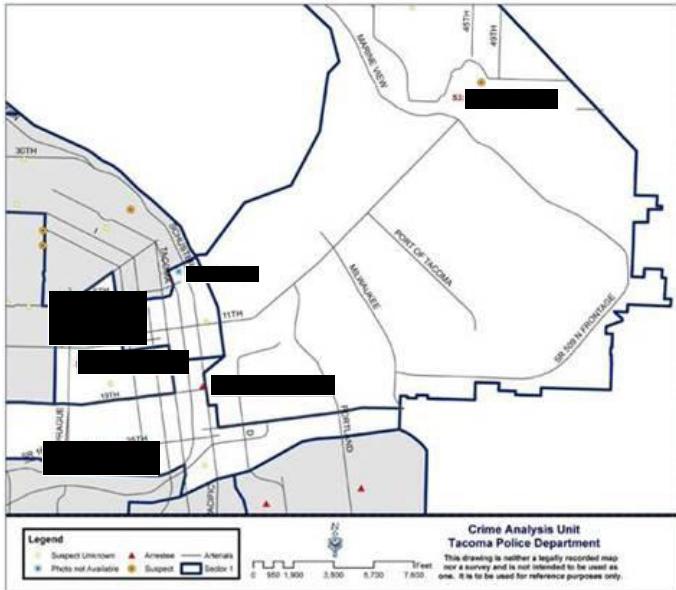


Holistic Approach



CAU on CopWeb

City of Tacoma – Burglary Offense Locations • Sector 1
Arrestees and Suspects - February 2013



Sector 1 • No Photo Available Suspect Table						
Case Number	Suspect's Name	Offense Location	Date of Birth	Age	Race	Sex
1						

Sector 1 - Arrestees		Sector 1 - Suspects					
A1	[Redacted]	A2	[Redacted]	S1	[Redacted]	S2	[Redacted]
Name:	Race/Sex:	Name:	Race/Sex:	Name:	Race/Sex:	Name:	Race/Sex:
DOB:	Hgt/Wgt:	DOB:	Hgt/Wgt:	DOB:	Hgt/Wgt:	DOB:	Hgt/Wgt:
Hgt/Wgt:	Hair/Cyc:	Hgt/Wgt:	Hair/Cyc:	Hgt/Wgt:	Hair/Cyc:	Hgt/Wgt:	Hair/Cyc:
LKA:	Case#:	LKA:	Case#:	LKA:	Case#:	LKA:	Case#:
Alias:		Alias:		Alias:		Alias:	

Under Administrative Services Bureau tab

Click on Crime Analysis

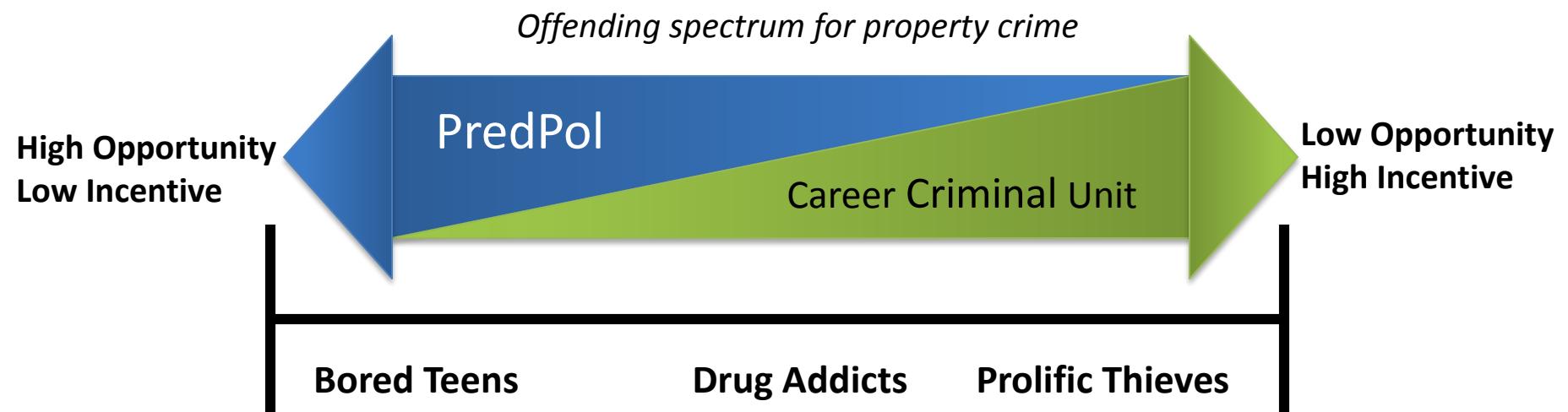
<http://tpd.sharepoint.lesa.net/asb/crimeanalysis/default.aspx>

Reports:

- Vehicle Prowl
- Burglary
- Robbery
- MVTR

Property Crime Prevention

policing the risk = reducing the opportunity



What PredPol means for you...

- Rule of Thumb: 6 times in box for 10 mins
- Dispatch still priority
- Don't ignore other places you know are high crime
- Use Incident Mapping and supplement with CAU reports
- Don't be glued to box boundaries, draw from your experience

Before you start...

- You must make sure your CAD has been upgraded (see IDM# 13-011)
 - Otherwise the “hot key” function will not work
- You need to have Google Chrome installed on your laptop to access the PredPol website
 - PredPol’s uses Google Maps which doesn’t play well Internet Explorer
 - Note: CAD & SS911 apps still require Internet Explorer
 - **DO NOT MAKE GOOGLE CHROME YOUR DEFAULT BROWSER**

F1

INSERVICE

F2

STATUS OK



F3

LOCK

F4

TRANSPORT



F5

ADD MSG

F6

SELF

F7

UNIT HIST

F8

PAGE BACK

F9

PREV MSG

F10

MDT AWAY

F11

TR CMPT

F12

EAT

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

SHIFT + F6 for Self-Initiated Event

OK S197 IN SERVICE TE70

30 April 20:13

No Messages

F1

ENROUTE

F2

ARRIVE

F3

BLANK

F4

ORIG DISP

F5

TRF STOP

F6

SUSP PERS

F7

RCL INC

F8

PAGE FWD

F9

NEXT MSG

F10

SAVE

F11

RECALL

F12

REPLY

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

SELF

MDS SELF-INITIATED EVENT

"PREDPO"

TYPE CODE:

LOCATION:

Address

OPTIONAL

COMMENTS:

LICENSE:

LIC STATE: (Default WA)

OK

S197

IN SERVICE

TE70

30 April 20:24

No Messages

F1

ENROUTE

F2

ARRIVE

F3

BLANK

F4

ORIG DISP

F5

TRF STOP

F6

SUSP PERS

F7

RCL INC

F8

PAGE FWD

F9

NEXT MSG

F10

SAVE

F11

RECALL

F12

REPLY

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

SELF

MDS SELF-INITIATED EVENT

REQUIRED

TYPE CODE: **PREDPO**

LOCATION: **3700 S PINE ST**

OPTIONAL

COMMENTS:

LICENSE:

LIC STATE: (Default WA)

OK

S197

IN SERVICE

TE70

30 April 20:31

No Messages

F1

ENROUTE

F2

ARRIVE

F3

BLANK

F4

ORIG DISP

F5

TRF STOP

F6

SUSP PERS

F7

RCL INC

F8

PAGE FWD

F9

NEXT MSG

F10

SAVE

F11

RECALL

F12

REPLY

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

INCIDENT HISTORY DETAIL: LAW/L131201182

Initiate: 20:32:48 04/30/13 Call/Case Nbr: [L1182](#)
 Entry: 20:32:48 Current Status: ONSCENE
 Dispatch: 20:32:48 Primary Unit: [S197](#)
 Onscene: 20:32:48 Jurisdiction: TA
 Close: Disposition:

Location: 3700 S PINE ST ,TA (S 36TH ST & S 38TH ST)

Loc Comments: [Map-It](#)

DAREA: PS Current:

Beat/Stn: TA31 Map Page: Type: PREDPO Final: PREDPO
 RD: 407 Page: Priority: 3 PREDICT POLICING
 Page: PRIORS Detail

20:32:48 ONVIEW [S197](#)

20:32:48 PRIOR LP PREDPO 03/25/13 @ 23:07:47 (1 MORE)

20:32:48 ID S197 (T04654) JEPSON, KEVIN

OPERATOR ASSIGNMENTS: TE70 T04654 JEPSON, KEVIN

Now use “Control + [Predpol Letter]”

OK

S197

ON SCENE

TE70

30 April 20:33

No Messages

F1

ENROUTE

F2

ARRIVE

F3

BLANK

F4

ORIG DISP

F5

TRF STOP

F6

SUSP PERS

F7

RCL INC

F8

PAGE FWD

F9

NEXT MSG

F10

SAVE

F11

RECALL

F12

REPLY

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

INCIDENT HISTORY DETAIL: LAW/L131201182

Initiate: 20:32:48 04/30/13 Call/Case Nbr: [L1182](#)
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Loc Comments: [Map-It](#)

DAREA: PS Current:

Beat/Stn: TA31 Map Page: Type: PREDPO Final: PREDPO

RD: 407 Page: Priority: 3 PREDICT POLICING

Page: PRIORS

Detail

20:32:48 ONVIEW [S197](#)

20:32:48 PRIOR LP PREDPO 03/25/13 @ 23:07:47 (1 MORE)

20:32:48 ID S197 (T04654) JEPSON, KEVIN

20:34:32 MISC [S197](#), POLICE ZONE A

OPERATOR ASSIGNMENTS: TE70 T04654 JEPSON, KEVIN

The ZONE will automatically be entered

OK

S197

ON SCENE

TE70

30 April 20:38

No Messages

F1
ENROUTE

F2
ARRIVE

F3
BLANK

F4
ORIG DISP

F5
TRF STOP

F6
SUSP PERS

F7
RCL INC

F8
PAGE FWD

F9
NEXT MSG

F10
SAVE

F11
RECALL

F12
REPLY

View 1 View 2 View 3 View 4 Dispatch QP PN QP PS

INCIDENT HISTORY DETAIL: LAW/L131201182

Initiate: 20:32:48 04/30/13 Call/Case Nbr: L1182
Entry: 20:32:48 Current Status: ONSCENE
Dispatch: 20:32:48 Primary Unit: S197
Onscene: 20:32:48 Jurisdiction: TA
Close: Disposition:

Location: 3700 S PINE ST ,TA (S 36TH ST & S 38TH ST)
Loc Comments: Map-It

DAREA: PS Current:
Beat/Stn: TA31 Map Page: Type: PREDPO Final: PREDPO
RD: 407 Page: Priority: 3 PREDICT POLICING
Page: PRIORS Detail

20:32:48 ONVIEW S197
20:32:48 PRIOR LP PREDPO 03/25/13 @ 23:07:47 MORE)
20:32:48 ID S197 (T04654) JEPSON, KEVIN
20:34:32 MISC S197, POLICE ZONE A

OPERATOR ASSIGNMENTS: TE70 T04654 JEPSON, KEVIN

If no activity, disposition = “C” (work sheet),
actual code = “PREDPO”
If activity, officer calls out appropriate call type
and enters correct disposition (e.g. “SUSV”)

No Messages